

# OPERATING INSTRUCTIONS

PRINCE CASTLE INC.  WORLDWIDE

## High-Speed Contact Griller TX Series



### PRODUCT SPECIFICATION

#### Electrical

208 Volt 60 Hz. Single Phase  
19.2 Amps 4000 Watts Max.

240 Volt 60 Hz. Single Phase  
22.2 Amps 5325 Watts Max.

#### TABLE OF CONTENTS

	PAGE
Installation / Set-Up .....	2
Overlay Glossary .....	2
Operation & Programming .....	2-3
Maintenance .....	4
Cleaning .....	4
Diagnostic Troubleshooting .....	5
Troubleshooting .....	5
Exploded View & Parts List .....	6-7
Wiring Diagram .....	8

#### LIMITED WARRANTY

This product is warranted to be free from defects in material and/or workmanship for a period of two (2) years from date of original installation, not to exceed 30 months from date of shipment from our factory. **On location service will be covered for a period of (1) one year from date of original installation. Customer must provide proof of purchase. (Travel charges are limited to 2 hours travel time, 100 miles round trip. One trip per repair)** After one year the customer is responsible for all trip charges, mileage, etc.

Any component which proves to be faulty in material and/or workmanship will be replaced or repaired (at the option of Prince Castle, Inc.) without cost to the customer for parts or labor.

This warranty is subject to the following exceptions/conditions:

- Any use of non genuine Prince Castle spare parts voids this warranty. All service should be performed by an Authorized Prince Castle Service Agency, failure to do so will void this warranty.
- Damage caused by carelessness, neglect, and/or abuse (e.g., dropping, tampering or altering parts), equipment damaged in shipment, by fire, flood or an act of God is not covered under this warranty.

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537-504

## INSTALLATION

1. After you have removed the toaster from the carton, inspect the unit for signs of damage. If there is damage to the unit:
  - Notify carrier within 24 hours after delivery.
  - Save carton and packing materials for inspection purposes.
  - Contact the Prince Castle Customer Sales Department at 1-630-462-8800 to arrange for a replacement to be sent.
  - Remove protective coating.
2. Verify that all parts have been received.
3. Locate toaster on a flat surface
4. Plug unit into the proper voltage receptacle.

## OVERLAY GLOSSARY



**ON/OFF Button:** Turns Unit on and off.



**SCAN UP/ACTUAL TEMP Button:** When pressed in run mode, display will show actual platen temperature. In programming mode, when pressed, will increase set point temperature.



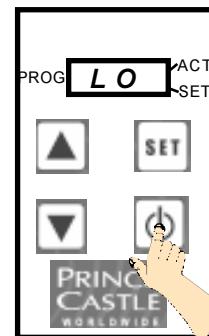
**SCAN DOWN Button:** In programming mode, when pressed will decrease the set point temperature.



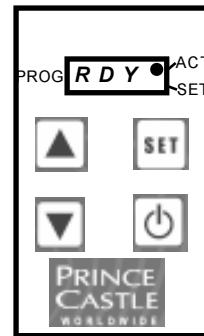
**SET BUTTON:** In run mode when pressed will display the Set Point Temperature. In program mode, when pressed, will store a new Set Point Temperature.

## OPERATION

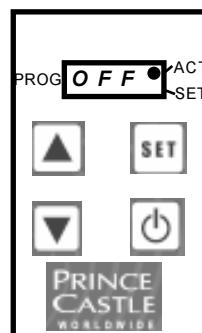
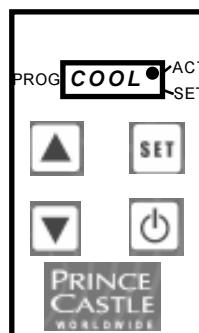
1. Press On/Off Button, conveyor will begin to turn and the display will read "LO".



2. Once the toaster reaches its Set Point temperature the display will read "R D Y" and the ACT LED will be lit.

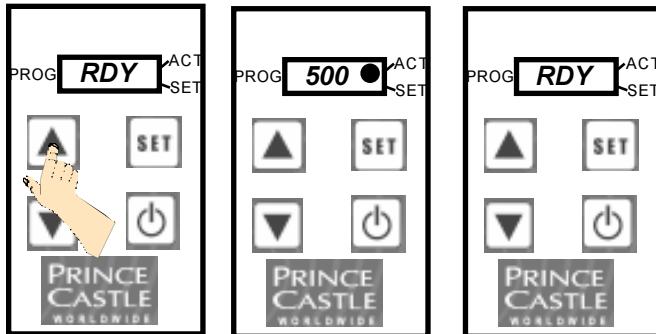


**NOTE:** When the toaster is turned OFF, if the platen is above 450°F, the display will alternately indicate "COOL" and "OFF" and the conveyor belt motor will continue to run for up to 45 minutes to protect the belt. When cooled sufficiently, the display will go blank and the conveyor belt motor will turn off.



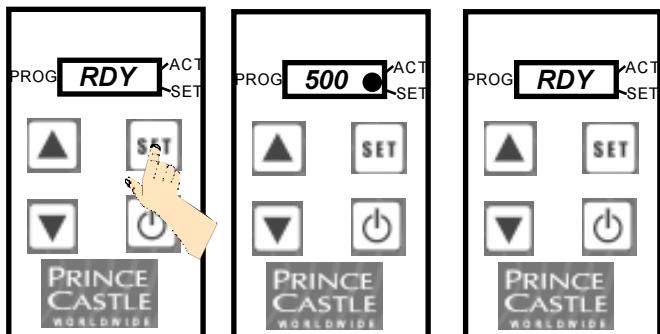
## VIEW ACTUAL TEMPERATURE

- When the toaster is at the proper operating temperature, the display will always show "RDY". To view the actual temperature, press and release either the "UP ARROW" or DOWN ARROW. The display will show the actual platen temperature for 5 seconds, then switch back to "RDY".



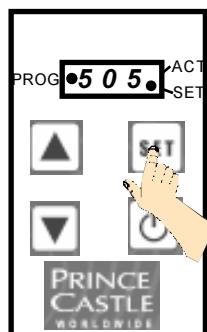
## VIEW SET POINT TEMPERATURE

- To view the Set Point Temperature, press and release the "SET" Button. The LED next to the "ACT" goes off and the LED next to "SET" comes on, and the set point temperature will be displayed for 5 seconds, then the display will change back to "RDY".

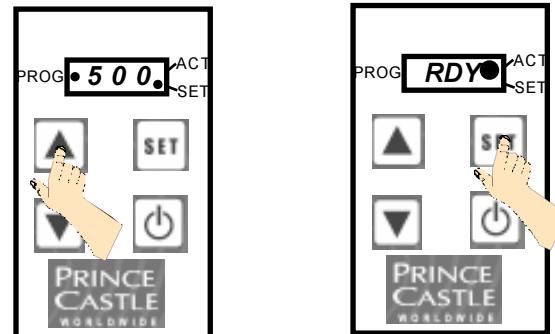


## PROGRAMMING SET POINT TEMPERATURE

- To change the set point temperature, press and hold the "SET" button for 6 seconds. The LED's next to "SET" and "PROG" will flash and the current set point temperature will be displayed.



- Use the "UP" or "DOWN" buttons to adjust to the desired setting. Press and release the "SET" button to save the new setting and return to the operation mode.

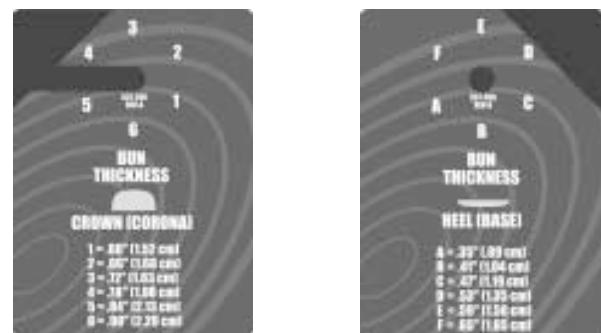


## FAHRENHEIT AND CELSIUS SETTINGS

- To switch the unit from Fahrenheit to Celsius, press and hold the "DOWN ARROW" once you release it the unit will switch to Celsius. To switch from Celsius to Fahrenheit press and hold and release the "UP ARROW" when you turn the unit on.

## BUN CRUSH SETTINGS

- The toaster is designed to adjust for different cuts of buns. The bun crush adjustment knobs are located on both sides of the toaster. Right side adjustment is for HEELS, and left side adjustment is for CROWNS.



1=Thinnest Cut Crowns

6=Thickest Cut Crowns

A=Thinnest Cut Heels

F=Thickest Cut Heels

# CLEANING

## DAILY

- 1 Teflon sheets should be rotated and cleaned on a daily basis. **NOTE:** Do not use sharp objects to clean Teflon sheets.
2. Wipe conveyor belt with a damp cloth on a daily basis. Remove front cover/bun chute assembly to access the conveyor belt. **NOTE:** Do not use sharp objects to clean the conveyor belt.

## MONTHLY

1. Conveyor belt should be removed and cleaned thoroughly on a monthly basis.
2. Remove front cover/Bun Chute Assembly by pulling up and off of the toaster and set aside.



3. Loosen thumbscrews and remove left side panel.
4. Press down on conveyor belt upper roller and lock into position.



5. Release upper and lower locking latches from the conveyor rollers.



6. Remove conveyor belt from the unit. It is easier to remove the belt by turning it as you pull it from the side.



6. Place belt on a flat surface, being careful not to crease the loops.
7. Clean with hot soapy water and sponge, then let air dry.
8. Reverse steps 2-5 to replace conveyor belt.

## CONVEYOR BELT TRACKING ADJUSTMENT

The Conveyor belt tracking adjustment allows for adjusting the conveyor belt if it slides too far to either side of the conveyor. Adjustment screw is located on the left side of the unit by the upper locking latch.



1. If the conveyor belt slides too far to the right, loosen the nut, then turn the adjustment screw clockwise to tighten, this will move the belt back to the center. Tighten the nut to lock the adjustment screw into place.



2. If the conveyor belt slides too far to the left, loosen the nut, then turn the adjustment screw counter clockwise to loosen, this will move the belt back to the center. Tighten the nut to lock the adjustment screw into place.

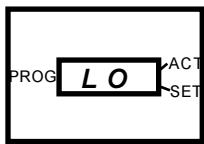


# TROUBLE SHOOTING

PROBLEM	CAUSE	SOLUTION
Unit will not heat up.	No power to unit.  Inoperable power cord. Loose connection on power switch. Inoperable power switch.	Ensure power cord is connected to proper Receptacle and the power inlet. Replace power cord. Tighten power switch connections. Replace power switch.
Unit heats up, but the conveyor does not run.	Loose motor connection. Inoperable motor. Stripped drive gear.	Tighten motor connection. Replace motor. Replace drive gear.
Buns under or over done.	Check bun crush setting  Verify set point temperature.  Dirty Teflon Sheet.	Adjust for proper compression  Adjust set point for proper temperature.  Clean or Replace Teflon Sheet.

## DIAGNOSTIC TROUBLESHOOTING

- When the platen temperature drops 24° or more below the set point temperature the display will switch from "RDY" to "LO" and remain at "LO" until the platen temperature reaches its original set point temperature.



- If the display remains at "LO" for 30 minutes you should do the following:

- Check For an Open Relay.
- Check For an Open Platen (11.8 Ohms)
- Check For an Open Probe (1000 Ohms)

If any of these parts have failed, they should be replaced by an Authorized Prince Castle Service Agent.

- When the platen temperature reaches 36° or more above the set point temperature, the display will switch from "RDY" to "HI" and remain that way until the temperature of the platen drops within the original set point temperature.



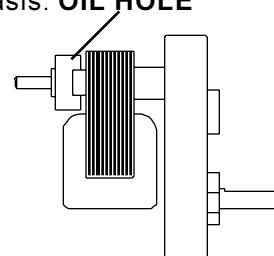
- If the display remains at "HI" for 30 minutes you should do the following:

- Check For an Open Relay.
- Check For an Open Platen (11.8 Ohms)
- Check For an Open Probe (1000 Ohms)

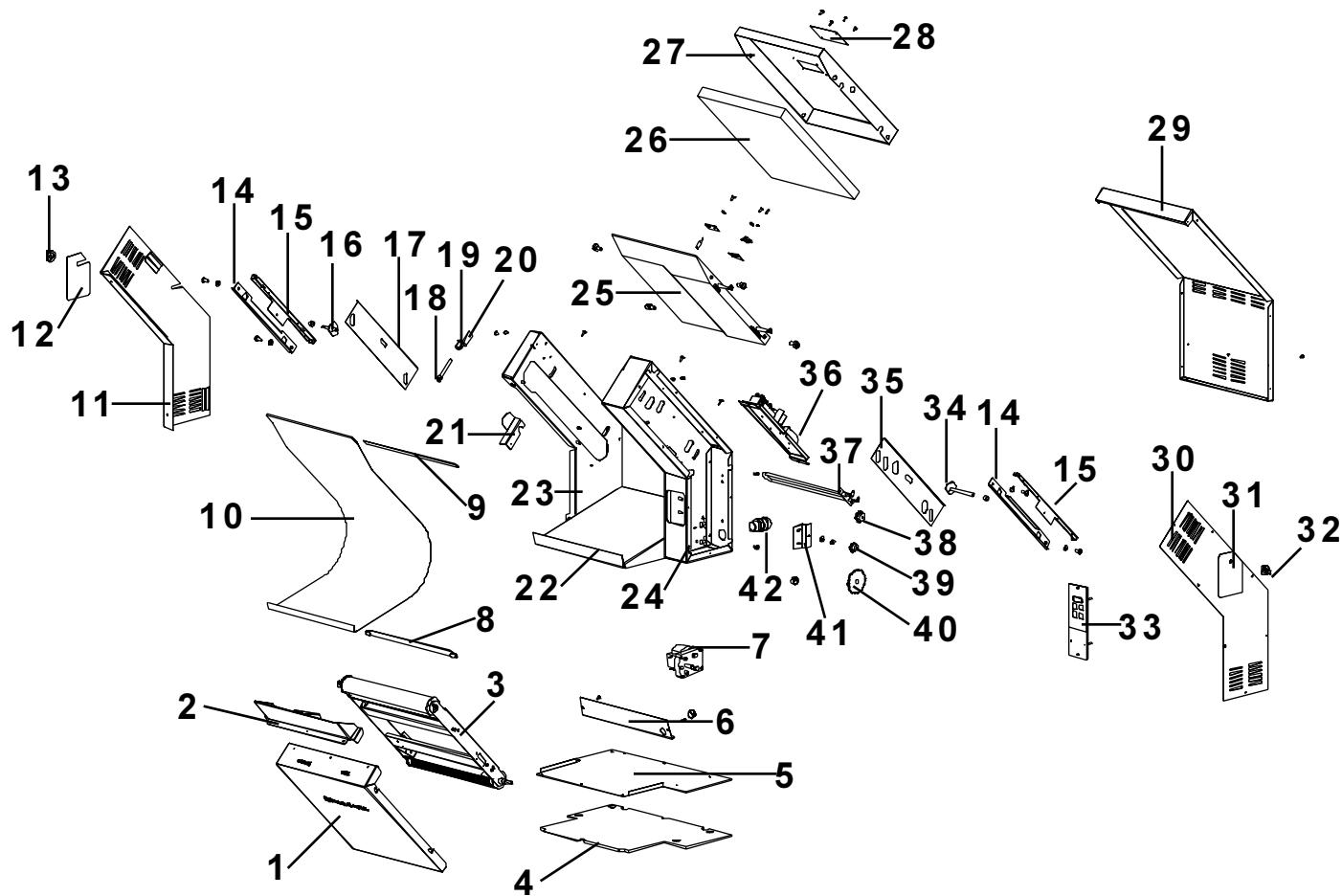
If any of these parts have failed, they should be replaced by an Authorized Prince Castle Service Agent.

## PREVENTIVE MAINTENANCE (MOTOR)

To extend the life of the motor have a factory authorized technician add 2-3 drops of 3 in 1 oil on a monthly basis. **OIL HOLE**



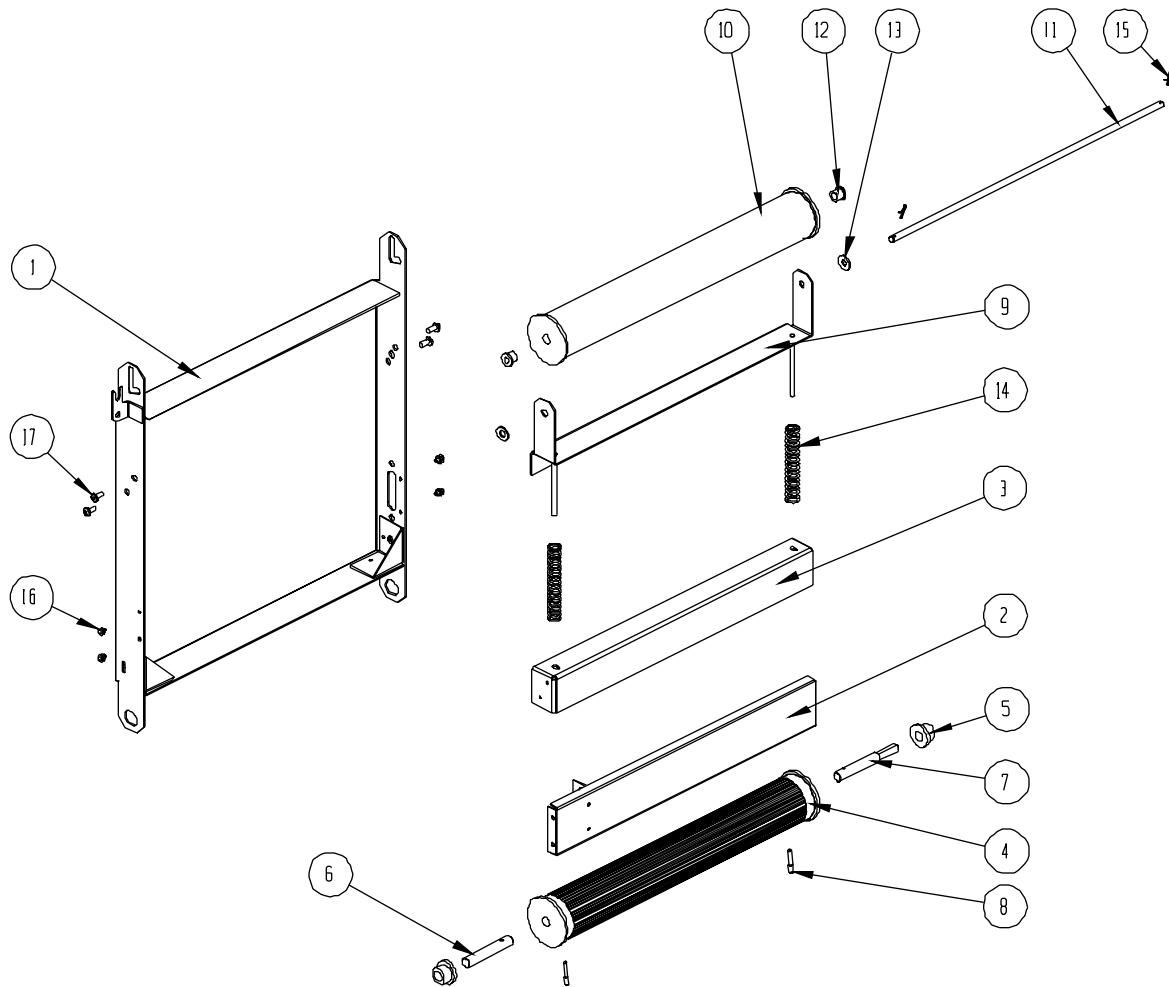
# EXPLODED VIEW AND PARTS LIST



## PARTS LIST

Item	Part Number	Description	Item	Part Number	Description
1	537-324	Front Cover	23	537-336	LH Upright
2	537-394	Bun Chute	24	537-335	RH Upright
3	537-330S	Conveyor Assy.	25	537-295S	Platen
4	537-338	Base Pad	26	537-337	Insulation
5	537-320	Bottom Plate	27	537-296	Heater Housing
6	537-373	Ramp Baffle	28	537-366	Heater Housing Plate
7	87-028S	Motor	29	537-321	Rear Panel
8	537-383	Retainer Bar Lower	30	537-332	RH Cover
9	537-398	Retainer Bar Upper	31	537-396	Bun Thickness Overlay
10	537-377S	Teflon Sheet (Pkg. of 2)	32	537-355	Knob
11	537-333	LH Cover	33	537-343S	PC Board & Overlay Assy.
12	537-395	Bun Crush Overlay	34	537-328	RH Cam Shaft
13	537-355	Bun Crush Adjustment Knob	35	537-299	RH Slide Plate
14	537-298	Cam Bracket	36	65-048S	Heater Relay
15	537-379	Guide Bracket	37	537-341S	Heater
16	537-329	LH Cam Shaft	38	537-340S	Sprocket (14 Tooth)
17	537-300	LH Slide Plate	39	421-072S	Idler Sprocket
18	537-386	Adjustment Knob	40	537-348S	Sprocket (32 Tooth)
19	537-385	Adjustment Nut	41	537-347	Idler Bracket
20	537-382	Conveyor Bracket	42	66-034	Strain Relief
21	537-381	Conveyor Bracket	*	72-190S	Line Cord
22	537-319	Ramp	*	537-312	Rubber Belt
			*	65-056S	Power Relay
			*	537-388S	Transformer Assy.
			*	Not Shown	

# CONVEYOR ASSEMBLY EXPLODED VIEW



## PARTS LIST

Item	Part Number	Description
1	537-351	Frame
2	537-354	Air Shield
3	537-349	Cross Brace
4	537-314	Lower Roller
5	537-370S	Lower Bearing (Package of 2)
6	537-318S	Lower Shaft (Short)
7	537-316S	Lower Shaft (Long)
8	197-279	Pin
9	537-334	Slide Bracket
10	537-313	Upper Roller
11	537-315	Upper Shaft
12	537-317S	Upper Bearing (Package of 2)
13	79-055S	Washer (Package of 2)
14	81-017S	Spring (Package of 2)
15	86-272S	Cotter Pin (Package of 2)
16	69-011S	Rivet (Package of 4)
17	76-640	Screw

## WIRING DIAGRAM

